

Datasheet for ABIN7544035
STARD3 Protein (AA 1-445) (His tag)



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Overview

Quantity:	1 mg
Target:	STARD3
Protein Characteristics:	AA 1-445
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STARD3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant STARD3 Protein expressed in mammalian cells.
Sequence:	<p>MSKLPRELTR DLERSLPAVA SLGSSLSHSQ SLSSHLLPPP EKRAISDVR RTFCLFVTFD LLFISLLWII ELNNTNGIRK NLEQEIIQYN FKTSFFDIFV LAFFRFSGLL LGYAVLRLRH WWVIAVTTLV SSAFLIVKVI LSELLSKGAF GYLLPIVSFV LAWLETWFLD FKVLPQEAE ERWYLAAQVA VARGPLLFSG ALSEGQFYSP PESFAGSDNE SDEEVAGKKS FSAQEREYIR QGKEATAVVD QILAQEENWK FEKNNEYGDT VYTIEVPFHG KTFILKTFLP CPAELVYQEV ILQPERMVLW NKTVTACQIL QRVEDNTLIS YDVSAGAAGG VVSPRDFVNV RRIERRRDY LSSGIATSHS AKPPTHKYVR GENGGGFIV LKSASNPRVC TFWILNTDL KGRLPRYLIH QSLAATMFEF AFHLRQRISE LGARA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

STARD3

Alternative Name:

STARD3 ([STARD3 Products](#))

Background:

StAR-related lipid transfer protein 3 (Metastatic lymph node gene 64 protein) (MLN 64) (Protein CAB1) (START domain-containing protein 3) (STARD3),FUNCTION: Sterol-binding protein that mediates cholesterol transport from the endoplasmic reticulum to endosomes (PubMed:11053434, PubMed:15930133, PubMed:22514632, PubMed:28377464, PubMed:33124732). The sterol transport mechanism is triggered by phosphorylation of FFAT motif that leads to membrane tethering between the endoplasmic reticulum and late endosomes via interaction with VAPA and VAPB (PubMed:24105263, PubMed:28377464, PubMed:33124732). Acts as a lipid transfer protein that redirects sterol to the endosome at the expense of the cell membrane and favors membrane formation inside endosomes (PubMed:28377464). May also mediate cholesterol transport between other membranes, such as mitochondria membrane or cell membrane (PubMed:12070139, PubMed:19965586). However, such results need additional experimental evidences, probably mainly mediates cholesterol transport from the endoplasmic reticulum to endosomes (PubMed:28377464).

Target Details

Does not activate transcriptional cholesterol sensing (PubMed:28377464). Able to bind other lipids, such as lutein, a xanthophyll carotenoids that form the macular pigment of the retina (PubMed:21322544). {ECO:0000269|PubMed:11053434, ECO:0000269|PubMed:12070139, ECO:0000269|PubMed:15930133, ECO:0000269|PubMed:19965586, ECO:0000269|PubMed:21322544, ECO:0000269|PubMed:22514632, ECO:0000269|PubMed:24105263, ECO:0000269|PubMed:28377464, ECO:0000269|PubMed:33124732}.

Molecular Weight: 50.5 kDa

UniProt: [Q14849](#)

Pathways: [C21-Steroid Hormone Metabolic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months